Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) An isolated polynucleotide comprising a polynucleotide encoding the polypeptide of claim 17, or chosen from: a) a polynucleotide encoding a polypeptide having at least 95% identity to SEO ID No : 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof; b) a polynucleotide encoding a polypeptide having at least 98% identity to SEO ID No : 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof; c) a polynucleotide encoding a polypeptide having at least 99% identity to SEO ID No : 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof; d)-a polynucleotide encoding a polypeptide comprising SEQ ID No : 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof; e) -a polynucleotide encoding -a polypeptide capable of raising antibodies having binding specificity for a polypeptide comprising SEO ID No : 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof; f) a polynucleotide encoding an epitope bearing portion of a polypeptide comprising SEQ ID No : 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof:

g) a polynucleotide comprising SEQ ID No : 1, 3, 5, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43 or fragments or analogs thereof;

h)—a polynucleotide that is complementary theretoto—a polynucleotide in (a), (b), (c), (d), (e), (f) or (g).

- 2. (canceled)
- 3. (canceled)
- 4. (canceled)
- 5. (currently amended) An isolated polynucleotide comprising a sequence—that hybridizes under stringent conditions to the polynucleotide of claim 1 either

 a) a DNA sequence encoding a polypeptide or

 b) the complement of a DNA sequence encoding a polypeptide; wherein said polypeptide comprises SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs—thereof.
- 6. (canceled)
- 7. (canceled)
- 8. (canceled)
- 9. (canceled)
- 10. (currently amended) The polynucleotide of claim 5[[1]] that hybridizes under stringent conditions to either a) a DNA sequence encoding a polypeptide or

- b) the complement of a DNA sequence encoding a polypeptide; wherein said polypeptide comprises at least 10 contiguous amino acid residues from a polypeptide comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or [[,]] 44 or fragments or analogs thereof.
- 11. (canceled)
- 12. (canceled)
- 13. (canceled)
- 14. (currently amended) A vector comprising the polynucleotide of claim 3 anyone of claims 1 to 13, wherein said polynucleotide [[DNA]] is operably linked to an expression control region.
- 15. A host cell transfected with the vector of claim 14.
- 16. (currently amended) A process for expressing the polypeptide from the vector of claim 14 producing a polypeptide—comprising culturing the [[a]] host cell according to claim 15 under conditions suitable for expression of said polypeptide.
- 17 (currently amended) An isolated polypeptide comprising a polypeptide chosen from:
- a) a polypeptide having at least 95% identity to an amino acid sequence comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or [[,]] 44 or fragments or analogs thereof;

- b) a polypeptide having at least 98% identity to an amino acid sequence comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or [[,]] 44 or fragments or analogs thereof;
- c) a polypeptide having at least 99% identity to an amino acid sequence comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or [[,]] 44 or fragments or analogs thereof;
- d) a polypeptide comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or [[,]] 44 or fragments or analogs thereof;
- e) a polypeptide consisting essentially of SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or 44;
- f) a polypeptide capable of raising antibodies having binding specificity for a polypeptide comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 or [[,]] 44 or fragments or analogs thereof;
- g[[f]]) an epitope bearing portion of a polypeptide
 comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34,
 36, 38, 40, 42 or[[,]] 44 or fragments or analogs thereof;
 h[[g]]) the polypeptide of (a), (b), (c), (d), (e),[[or]]
 (f) or (g) wherein the N-terminal Met residue is deleted;
 i[[h]]) the polypeptide of (a), (b), (c), (d), (e),[[or]]
 f) or (g) wherein the secretory amino acid sequence is
 deleted; or
- j) a polypeptide which is an immunogenic fragment or immunogenic analog of the polypeptide of (a), (b), (c),
 (d), (e), (f) or (g).
- 18. (canceled)

- 19. (canceled)
- 20. (canceled)
- 21. (currently amended) A chimeric polypeptide comprising the polypeptide of claim 17 two or more polypeptides comprising SEQ ID NO: 2, 4, 6, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44 or fragments or analogs thereof; provided that the polypeptides are linked with another polypeptide so as to form an immunogenic[[a]] chimeric polypeptide.
- 22. (canceled)
- 23. (currently amended) A pharmaceutical composition comprising the [[a]] polypeptide of claim 17 according to any one of claims 17 to 20 and a pharmaceutically acceptable carrier, diluent or adjuvant.
- 24. (currently amended) A pharmaceutical composition comprising the chimeric[[a]] polypeptide of claim 21 according to any one of claims 21 to 22 and a pharmaceutically acceptable carrier, diluent or adjuvant.
- 25. (currently amended) A method for prophylactic or therapeutic treatment of *S. pyogenes* infection in a host susceptible to *S. pyogenes* infection comprising administering to said host a prophylactic or therapeutic amount of the [[a]] composition according to claim 23.
- 26. (currently amended) <u>The[[A]]</u> method according to claim 25[[23]] wherein the host is a neonate, an infant,[[or]] a

child, an immunocompromised host, an adult, or an elderly person.

- 27. (canceled)
- 28. (canceled)
- 29. (canceled)
- 30. (currently amended) A method for prophylactic or therapeutic treatment of <u>S. pyogenes</u> infection in a host susceptible to <u>S. pyogenes</u> infection comprising administering to said host a prophylactic or therapeutic amount of the[[a]] composition according to claim 24.
- 31. (currently amended) A method for prophylactic or therapeutic treatment of infections in a host, including pharyngitis, erysipelas, impetigo, scarlet fever, and invasive diseases such as bacteremia and necrotizing fasciitis comprising administering to said host a therapeutic or prophylactic amount of a composition according to claim 23.
- 32. (currently amended) A method for diagnosis of
- S. pyogenes infection in a[[an]] host susceptible to
- S. pyogenes infection comprising
- a) obtaining a biological sample from the[[a]] host;
- b) incubating an antibody or fragment thereof reactive with the[[a]] polypeptide according to claim any one of claims
 17 to 20 with the biological sample to form a mixture; and

- c) detecting specifically bound antibody or bound fragment in the mixture which indicates the presence of *S. pyogenes* in the host.
- 33. (currently amended) A method for the detection of antibody specific to *S. pyogenes* antigen in a biological sample containing or suspected of containing said antibody comprising
- a) obtaining the[[a]] biological sample from a host;
- b) incubating one or more polypeptides according to claim
 any-one-of-claims
 17 to 20 or fragments thereof with the biological sample to form a mixture; and
- c) detecting specifically bound antigen or bound fragment in the mixture which indicates the presence of antibody specific to *S. pyogenes* in the sample.
- 34. (canceled)
- 35. (canceled)
- 36. (currently amended) Kit comprising the [[a]] polypeptide according to claim any one of claims 17 to 20 for detection or diagnosis of S. pyogenes infection.
- 37. (currently amended) Kit comprising the chimeric[[a]] polypeptide according to claim any one of claims 21 to 22 for detection or diagnosis of *S. pyogenes* infection.